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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Applicant: Xu, Frank Y.  
App. No.: 10/763,885 GPAU: 1752  
Filing Date: 01/23/2004 Examiner: Amanda C. Walke  
Dkt. No.: P113-55-03 Conf. No.: 6002  
For: Materials and Methods for Imprint Lithography

**INFORMATION DISCLOSURE STATEMENT**

Mail Stop AMENDMENT  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

The following information is submitted in compliance with Applicants' duty of disclosure and pursuant to 37 C.F.R. § 1.56, § 1.97 and § 1.98. The undersigned brings the patents, publications, applications or other information identified in the attached:

- ☒ Form(s) PTO/SB/08A and/or PTO/SB/08B or PTO/1449  
☐ Other:

to the Examiner's attention in the above-identified application. It is respectfully requested that the cited information be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

This Information Disclosure Statement is being filed:

during the period specified in § 1.97(c). Accordingly, the fee set forth in § 1.17(p) is required and provided as shown below.

The Commissioner is hereby authorized to charge the \$180.00 fee to the Molecular Imprints, Inc. Deposit Account Number 502650. Applicants do not believe that any additional fees are

due, but if the Commissioner believes additional fees are due, the Commissioner is hereby authorized to charge any fees which may be required, or credit any overpayment, to Deposit Account Number 502650.

CERTIFICATE OF TRANSMISSION

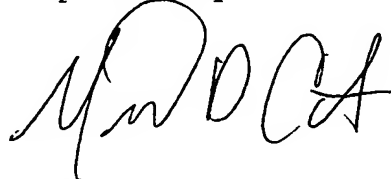
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Signed: Katrina Prati

Typed Name: Katrina Prati

Date: 9-16-05

Respectfully Submitted,



Michael D. Carter

Reg. No. 56,661

Registered Patent Agent

Legal Department

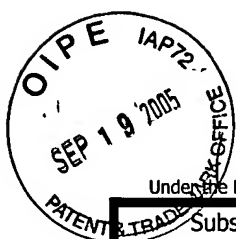
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PTO/SB/08A (08-03)

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Substitute for form 1449A/PTO

# **INFORMATION DISCLOSURE STATEMENT BY APPLICANT**

(use as many sheets as necessary)

Sheet 1 of 10

## **Complete if Known**

APPLICATION NUMBER	10/763,885
FILING DATE	01/23/2004
FIRST NAMED INVENTOR	Xu et al.
Group Art Unit	1752
Examiner Name	Walke, Amanda C.
Attorney Docket Number	P113-55-03

## **U.S. PATENT DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	U.S. Patent Document		Name of Patentee or Applicant of Cited Document	Date of Publication of Cited Document MM-DD-YYYY	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number	Kind Code* (if known)			
	F1	5,512,131		Kumar et al.	4/30/1996	
	F2	6,316,290	B1	Wensel	11/13/2001	
	F3	6,355,198	B1	Kim et al.	3/12/2002	
	F4	6,541,356	B2	Fogel et al.	4/1/2003	
	F5	2004/0065252	A1	Sreenivasan et al.	4/8/2004	
	F6	6,696,157	B1	David et al.	2/24/2004	
	F7	6,600,207	B2	Huang et al.	7/29/2003	
	F8	5,956,216		Chou	9/21/1999	
	F9	5,820,769		Chou	10/13/1998	
	F10	6,190,929	B1	Wang et al.	2/20/2001	
	F11	5,204,381		Zeigler	4/20/1993	
	F12	6,066,269		Wei et al.	5/23/2000	
	F13	4,722,878		Watakabe et al.	2/2/1988	
	F14	2001/0044075	A1	Nishimura et al.	11/22/2001	
	F15	5,369,722		Heming et al.	11/29/1994	
	F16	6,475,704	B1	Iwasaki et al.	11/5/2002	
	F17	2005/0051698	A1	Sreenivasan et al.	3/10/2005	

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<b>Sheet</b>	2	<b>of</b>	10		

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		Number	Kind Code <sup>2</sup> (if known)			

	F18	6,132,632		Haney et al.	10/17/2000	
	F19	6,344,105	B1	Daugherty et al.	2/5/2002	
	F20	5,905,104		Eklund et al.	5/18/1999	
	F21	6,468,896	B2	Rohr et al.	10/22/2002	
	F22	6,342,097	B1	Terry et al.	1/29/2002	
	F23	5,389,696		Dempsey et al.	2/14/1995	
	F24	5,234,793		Sebald et al.	8/10/1993	
	F25	6,174,931	B1	Moon et al.	1/6/2001	
	F26	2005/0084804	A1	Truskett et al.	4/21/2005	
	F27	2005/0100830	A1	Xu et al.	5/12/2005	
	F28	2005/0118749		Sakamoto et al.	6/2/2005	
	F29	2004/0202872	A1	Fang et al.	10/14/2004	
	F30	4,517,337		Lockhart et al.	5/14/1985	
	F31	2004/0241338	A1	Foster et al.	12/2/2004	
	F32	3,919,351		Chang et al.	11/11/1975	
	F33	4,514,439		Rounds	4/30/1985	
	F34	4,271,258		Watariguchi	6/2/1981	

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<b>Sheet</b>	3	<b>of</b>	10	<b>Examiner Name</b>	Walke, Amanda C.
				<b>Attorney Docket Number</b>	P113-55-03

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		Number	Kind Code <sup>2</sup> (if known)			
	F35	4,988,274		Kenmochi	1/29/1991	
	F36	6,114,404		Deeken et al.	9/5/2000	
	F37	6,583,248	B1	Bowen	6/24/2003	
	F38	6,916,584	B2	Sreenivasan et al.	7/12/2005	
	F39	4,687,707		Matsuo et al.	8/18/1987	
	F40	5,314,731		Yoneda et al.	5/24/1994	
	F41	5,482,768		Kawasato et al.	1/9/1996	
	F42	2003/0062334	A1	Lee et al.	4/3/2003	
	F43	2005/0156357	A1	Willson et al.	7/21/2005	
	F44	6,932,934	B2	Choi et al.	8/23/2005	
	F45	6,849,558	B2	Schaper	2/1/2005	
	F46	6,936,194	B2	Watts	8/30/2005	

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		Office <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
	F47	WO	87/02935		Long et al.	5/21/1987		
	F48	JP	02192045		Mineo et al.	7/27/1990		
	F49	JP	61-40845		Matsuo et al.	2/27/1986		
	F50	JP	2-248480		Yoneda et al.	10/4/1990		
	F51	JP	3-90345		Nobuyoshi et al.	4/16/1991		
	F52	JP	9-278490		Toru et al.	10/28/1997		

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Sheet	5	of	10	Attorney Docket Number	P113-55-03

OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>

	F53	BLOMQUIST ET AL., Fluorinated Acrylates in making Low-Loss, Low-Birefringence, and Single-Mode Optical Waveguides with Exceptional Thermo-Optic Properties, SPIE Conference on Linear Optical Properties of Waveguides and Fibers, Vol. 3799, pp. 266 - 279 7/1/1999	
	F54	ELDADA ET AL., Robust Photopolymers for MCM, Board, and Backplane Optical Interconnects, SPIE Vol. 3288, pp. 175 - 191 1/1/1998	
	F55	ELDADA ET AL., Affordable WDM Components: The Polymer Solution, SPIE Vol. 3234, pp. 161 - 174 1/1/1998	
	F56	ELDADA ET AL., Advanced Polymer Systems for Optoelectronic Integrated Circuit Applications, SPIE Vol. 3006, pp. 344 - 361 1/1/1997	
	F57	HIRAI ET AL., Abstract of Mold Surface Treatment for Imprint Lithography, Journal of Photopolymer Science and Technology, pp 457-462, vol 14, No. 3 8/1/2001	
	F58	ROOS ET AL., Abstract of Nanoimprint Lithography with a Commercial 4 Inch Bond System for Hot Embossing, Proceedings of SPIE Vol. 4343, pp. 427-435 10/1/2001	
	F59	Sol-Gel Technology, www.chemat.com/html/solgel.html 1/14/2004	
	F60	Sol-Gel Chemistry, www.prsc/usm.edu/mauritz/solgel.html 2/2/2004	
	F61	HAKOVIRTA ET AL., Optical Properties of Fluorinated Diamond-Like Carbon Films Produced by Pulsed Glow Discharge Plasma Immersion Ion Processing, Journal of Applied Physics 88(3); pp1456-1459 8/1/2000	

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Sheet	6	of	10		

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	F62	APPLICATION NO. 11/027,473, naming Inventors Bailey et al., entitled Release Layer Comprising Diamond-Like Carbon (DLC) or Doped DLC with Tunable Composition for Imprint Lithography Templates and Contact Masks, filed 12/30/2004	
	F63	APPLICATION NO. 10/789,319, naming Inventors Xu et al., entitled Composition for an Etching Mask Comprising a Silicon-Containing Material, filed 2/27/2004	
	F64	APPLICATION NO. 10/948,511, naming Inventors Xu et al., entitled Polymerization Technique to Attenuate Oxygen Inhibition of Solidification of Liquids and Composition Thereof, filed 9/23/2004	
	F65	APPLICATION NO. 10/967,740, naming Inventors Xu et al., entitled Low-K Dielectric Functional Imprinting Materials, filed 10/18/2004	
	F66	APPLICATION NO. 10/919,062, naming Inventors Xu et al., entitled Composition to Provide a Layer with Uniform Etch Characteristics, filed 8/16/2004	
	F67	APPLICATION NO. 10/919,224, naming Inventors Xu et al., entitled Method to Provide a Layer with Uniform Etch Characteristics, filed 8/16/2004	
	F68	APPLICATION NO. 10/978,285, naming Inventors Willson et al., entitled Step and Flash Imprint Lithography, filed 10/29/2004	
	F69	APPLICATION NO. 11/062,420, naming Inventors Willson et al., entitled Step and Flash Imprint Lithography, filed 2/22/2005	
	F70	APPLICATION NO. 11/068,397, naming Inventors Xu et al., entitled Method of Providing Desirable Wetting and Release Characteristics between a Mold and a Polymerizable Composition, filed 2/28/2005	

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	F71	APPLICATION NO. 11/068,174, naming Inventors Xu et al., entitled Method to Reduce Adhesion Between a Conformable Region and a Mold, filed 2/28/2005	
	F72	Data Sheet for MAK (Methyl n-Amyl Ketone), www.sp-chem.com/fine_e 1/1/2003	
	F73	Data Sheet for gamma-Glycidoxypolytrimethoxysilane, www.powerchemical.net/3100.htm 12/5/2003	
	F74	Silicon or Silica, www.mii.org/Minerals/photosil 3/31/2005	
	F75	Electronic Devices and Circuits, people.deas.harvard.edu/~jones/es154/lectures/lecture_2/materials/materials.html 3/31/2005	
	F76	Data Sheet for Cymel 303ULF, www.cytec.com	
	F77	Data Sheet for Cycat 4040, www.cytec.com	
	F78	International Chemical Safety Card for p-Tolueneulfonic Acid, www.itcilo.it/english/actrav/telearn/osh/ic/104154.htm 12/5/2003	
	F79	Data Sheet for p-Toluenesulfonic Acid, NIOSH Manual of Analytical Methods (NMAM), Fourth Edition	

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				APPLICATION NUMBER	10/763,885
				FILING DATE	01/23/2004
				FIRST NAMED INVENTOR	Xu et al.
				Group Art Unit	1752
				Examiner Name	Walke, Amanda C.
				Attorney Docket Number	P113-55-03
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	F80	Data Sheet for Dow Corning Z-6018,	
	F81	Data Sheet for Methyl Amyl Ketone, <a href="http://www.arb.ca.gov/db/solvents/solvent_pages/Ketones-HTML/methyl_amyl.htm">www.arb.ca.gov/db/solvents/solvent_pages/Ketones-HTML/methyl_amyl.htm</a> 3/31/2005	
	F82	GOLDEN ET AL., Designing Porous Low-k Dielectrics, <a href="http://www.reed-electronics.com/semiconductor/index.asp?layout=articlePrint&amp;articleID=CA82824">www.reed-electronics.com/semiconductor/index.asp?layout=articlePrint&amp;articleID=CA82824</a> 4/6/2005	
	F83	PADOVANI ET AL., Chemically Bonded Porogens in Methylsilsesquioxane: I. Structure and Bonding, Journal of the Electrochemical Society, 149 (12) F161-F170 10/16/2002	
	F84	WOLF ET AL., Silicon Processing for the VLSI Era, Volume 1--Process Technology, pp. 407-413 1/1/1986	
	F85	TANIGUCHI ET AL., Diamond Nanoimprint Lithography, Nanotechnology, 2002, vol. 13, no. 5, pp. 592-596(5) 1/1/2002	
	F86	KIYOHARA ET AL., Abstract of Plasma Etching of CVD Diamond Films using an ECR-type Oxygen Source, <a href="http://www.iop.org/EJ/abstract/0957-4484/10/4/304">http://www.iop.org/EJ/abstract/0957-4484/10/4/304</a> 9/26/2003	
	F87	WOLF ET AL., Silicon Processing for the VLSI Era, Volume 1--Process Technology, pp. 541, 542, 544, 564, 565 1/1/1986	
	F88	Abstract of Japanese Patent 61-040845, 2/27/1986	

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	F91	Abstract of Japanese Patent 09-278490, 10/28/1997	
	F92	Abstract of Japanese Patent 61-040845, 2/27/1986	
	F93	Abstract of Japanese Patent 02-248480, 10/4/1990	
	F94	APPLICATION NO. 11/187,406, naming Inventors Xu, entitled Composition for adhering materials together, filed 7/22/2005	
	F95	APPLICATION NO. 11/187,407, naming Inventors Xu, entitled Method for adhering materials together, filed 7/22/2005	
	F96	XU ET AL., Development of Imprint Materials for the Step and Flash Imprint Lithography Process, SPIE Microlithography Conference 2/1/2004	
	F97	NORDQUIST ET AL., Image Placement Issues for ITO-based Step and Flash Imprint Lithography Templates, J. Vac. Sci. Technol. B, pp. 695-701 3/1/2004	

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	F98	RESNICK ET AL., Release Layers for Contact and Imprint Lithography, Semiconductor International, pp. 71-80 6/1/2002	

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